

STATINTL



28 December 1965

PROGRESS REPORT NO. 3

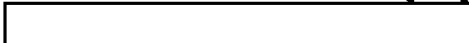
10/1/65 - 11/30/65

REPORT NO. SME-BL-2

UNIVERSAL DATA BLOCK READER

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This document has been prepared in accordance with the requirements of



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Submitted By:



DECLASS REVIEW by NIMA/DOD

1.0 SUMMARY

The major emphasis during this period has been placed in the following areas:

- a) Optical System Design
- b) Logic Design
- c) Read Amplifier Package Design
- d) Transport Breadboard Fabrication

Satisfactory progress has been made in each of the above areas.

A major problem developed in the optical system area which has been resolved. A more detailed description of this problem and its solution will be found in the appropriate section of this report. A trip was made to the Customer on November 3, 1965 to discuss the pending ECP and the optical problem. To date, the ECP has not been authorized. This delay in authorization will cause additional stretchout of the program schedule.

2.0 PROGRAM SCHEDULE/MILESTONE STATUS

The major milestones completed during this period were:

- 1. Read Amplifier Components Procurement
- 2. Logic Card Components Procurement
- 3. Transport Parts Fabrication
- 4. Read Amplifier Package Design
- 5. Transport Breadboard Fabrication
- 6. Power Analysis

7. Core Memory Procurement
8. Data Organization Memory Procurement
9. Magnetic Tape Recorder Test

Milestones scheduled to be started and/or completed during the next report period are:

1. Logic Design
2. Optical System Mechanical Design
3. Lens Design
4. Logic Wire Lists
5. Control Panel Design
6. Transport Breadboard Test
7. Logic Card Cage Procurement

### 3.0 ENGINEERING CHANGE PROPOSAL

The Engineering Change Proposal was formally submitted October 4, 1965. A meeting was held at the Customer's facility on November 3, 1965 to discuss further the technical aspects of the ECP. To date, no authorization to proceed has been received. This delay in authorization has caused a stretch-

out of the program. *#1 - 30 Dec 66*  
*#2 - 28 Feb 67*

### 4.0 OPTICAL SYSTEM

A major problem was encountered in the optical system. This problem was discussed in detail at the meeting held at the Customer's facility on November 3, 1965. The problem arises from the fact that the optical system, as originally conceived, will not be capable of maintaining the tolerance necessary for electronic correction of the camera and transport wander. It was

therefore decided that a new approach was necessary. For information purposes, enclosed herewith is a copy of an internal memorandum generated to establish the background and to discuss the solution to this problem.

As a result of a technical analysis and the discussion held with the Customer, work has begun at our lens facility in Los Angeles on the design of a low distortion mapping type lens, corrected in the red region. Concurrently, the mechanical design of the new optical mount was started.

5.0 LOGIC DESIGN

The Logic Design has been completed with a formal design review scheduled for the next report period. Detail wire lists will be started following the formal design review.

6.0 FILM TRANSPORT

The film transport has been assembled and is presently undergoing initial test and evaluation. A request was made to the Customer for various films in order that the transport may be tested under actual operating conditions. To date, all tests indicate that the initial design will be satisfactory with only minor modifications necessary.

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